

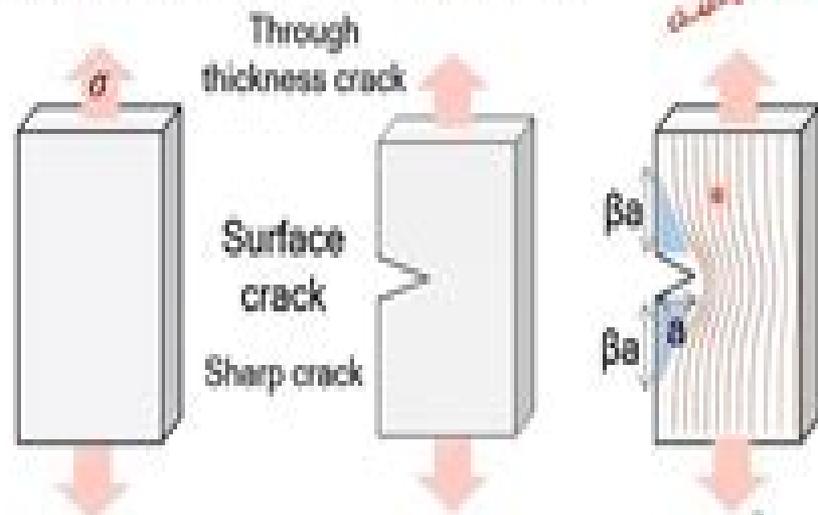


Griffith theory: Role of cracks in fracture

$$\sigma_c = \sqrt{\frac{E\gamma}{x_0}} \quad \text{2 to 4 orders of magnitude higher than the experimental values}$$

Defects: Cracks present in materials

Griffith theory (1920)- Brittle Materials



$$U = \frac{1}{2} \sigma \epsilon = \frac{1}{2} \sigma \frac{\sigma}{E} = \frac{1}{2} \frac{\sigma^2}{E}$$



Alan Arnold Griffith

13 June 1893-13 October 1963

<https://www.royal.gov.uk/collections/search/person/mq61157alan-arnold-griffith>

Reduction/relaxation of strain energy $U_0 = -\frac{\sigma^2}{2E} \beta a a w$ w is the thickness of plate

Reduction in strain energy/thickness $U_0 = -\frac{\sigma^2}{2E} \beta a^2$ $\beta = \pi$

Electromagnetic Theory Griffith

Michael Brown



Electromagnetic Theory Griffith :

Adopting the Track of Term: An Emotional Symphony within **Electromagnetic Theory Griffith**

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